

OCS-G-23516
DESOTO CANYON 491 #1 ST01

GEOLOGICAL PROGNOSIS

Well Classification: Exploration

Formation	Anticipated Tops			Remarks
	Subsea	TVD	MD	
COTTON VALLEY SHALE	-17,354	17,438	18,000	
COTTON VALLEY LIME	-19,200	19,284	20,467	Objective Target – Oil Limestone Encountered in the original DC 535 #1 wellbore.
NORPHLET	-21,466'	21,550'	23,115'	Objective Target – Oil Sand Due to geological uncertainty, the Norphlet may come in as shallow as 22,000' tvd ss.
LOUANN SALT	-22,100'	22,184'	23,790'	There is large uncertainty as to the top of the Louann salt. The top of the Louann salt could extend much deeper.
TOTAL DEPTH	-22,600'	22,684'	24,321'	The well is planned to terminate into the top of the Louann salt which could be as deep as 25,000' TVD - ss.

Evaluation Program:

Mud Logging	Full service from 14" casing seat to TD
LWD Logging	14" csg to 11-7/8": Gamma Ray-Resistivity – Sonic
	11-7/8" csg to 9-7/8": Gamma Ray-Resistivity-Sonic - Neutron Density
	9-7/8" csg to TD: Gamma Ray-Resistivity-Sonic - Neutron Density
Planned Logging:	TBD
Optional Logging:	Below Cotton Valley Shale:
	Gamma Ray, Resistivity, Sonic, Neutron Density, Sidewall Cores, Fluid Samples & Pressures, Velocity Checkshot, OBMI, ECS, CMR